CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ

ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 16.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J. P Park in Ward no.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M25

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2020	16.06.2020	8.151	386.5	17.18
2	09.06.2020	16.06.2020	8.006	391.4	17.40
3	09.06.2020	16.06.2020	8.194	395.6	17.58

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

AE/JE (P) R.R.N

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ಆರ್.ಆರ್. ನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-01
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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 16.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2020	16.06.2020	8.010	376.4	16.73
2	09.06.2020	16.06.2020	8.169	386.2	17.16
3	09.06.2020	16.06.2020	8.193	395.3	17.57

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Lab No: CQCE/BBMP/MLR/17/2019-20 Date: 22.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2020	22.06.2020	8.004	375.2	16.68
2	15.06.2020	22.06.2020	8.171	382.9	17.02
3	15.06.2020	22.06.2020	8.152	398.1	17.69

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 22.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2020	22.06.2020	8.181	374.2	16.63
2	15.06.2020	22.06.2020	8.003	383.6	17.05
3	15.06.2020	22.06.2020	8.197	395.7	17.59

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 07.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2020	07.07.2020	8.191	601.5	26.73
2	09.06.2020	07.07.2020	8.001	623.1	27.69
3	09.06.2020	07.07.2020	8.107	631.2	28.05

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 07.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M25

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2020	07.07.2020	8.009	616.2	27.39
2	09.06.2020	07.07.2020	8.174	623.1	27.69
3	09.06.2020	07.07.2020	8.150	629.4	27.97

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 13.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2020	13.07.2020	8.110	618.2	27.48
2	15.06.2020	13.07.2020	8.179	621.4	27.62
3	15.06.2020	13.07.2020	8.064	629.9	28.00

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 13.06.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 12.06.2020 to 13.06.2020

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	15.8	175.6	4.39	1975.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	14.9	182.4	4.56	1862.50	
3	Block 3	14.8	177.2	4.43	1850.00	
4	Block 4	15.1	184.2	4.61	1887.50	

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 15.06.2020

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of Work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Reference to BIS codes	: IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	: 09.06.2020 to 15.06.2020

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.6	
3	5.4	
4	5.2	
5	5.8	
Average of 5 bricks	5.4	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	11.4	
3	10.8	
4	10.3	
5	10.9	
Average of 5 bricks	**10.8**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4675	4520 to 4680 mm
2	Width	2235	2160 to 2240 mm
3	Height	1375	1360 to 1440 mm

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Ref. No. CQCE/BBMP/MLR/17/2019-20 Date 18.06.2020

TEST REPORT ON CERAMIC TILES

*Client	: **Executive Engineer,** RR Nagara Zone Division, BBMP, Bangalore.
*Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
*Name of Work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	: 13.06.2020 to 18.06.2020

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	46.6	47.70	Average 47, indivisual minimum 44 N/mm^2
2	300x300x5.3	47.4		
3	300x300x5.5	48.8		
4	300x300x5.6	47.6		
5	300x300x5.4	48.1		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.3	No visible effect	
3	300x300x5.5	No visible effect	
4	300x300x5.6	No visible effect	
5	300x300x5.4	No visible effect	

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AE/JE (P) R.R.N

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STAIN RESISTANCE

Sl No	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x5.3	Stain Removed by Water	
3	300x300x5.5	Stain Removed by Water	
4	300x300x5.6	Stain Removed by Water	
5	300x300x5.4	Stain Removed by Water	

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C.Q.C.E/BBMP/MLR/17/2019-20 Date : 18.06.2020

TEST REPORT ON VITRIFIED TILES

*Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

*Contractor : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

*Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no 17, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Vitrified Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 13.06.2020 to 18.06.2020

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	48.3	47.72	Average 47, individual minimum 44 N/mm^2
2	600 x 600 x 9.8	46.9		
3	600 x 600 x 9.9	47.4		
4	600 x 600 x 9.8	48.2		
5	600 x 600 x 9.8	47.8		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.8	No visible effect	
3	600 x 600 x 9.9	No visible effect	
4	600 x 600 x 9.8	No visible effect	
5	600 x 600 x 9.8	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.8	Stain Removed by Water	
3	600 x 600 x 9.9	Stain Removed by Water	
4	600 x 600 x 9.8	Stain Removed by Water	
5	600 x 600 x 9.8	Stain Removed by Water	

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date : : 11.06.2020

GRADATION FOR WMM

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 11.06.2020
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	206	206	2.1	97.9	95-100
22.4	2555	2761	27.6	72.4	60-80
11.2	2158	4919	49.2	50.8	40-60
4.75	1894	6813	68.1	31.9	25-40
2.36	1154	7967	79.7	20.3	15-30
0.600	584	8551	85.5	14.5	8-22
0.075	1215	9766	97.7	2.3	0-5

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date : : 11.06.2020

GRADATION FOR WMM

Client : Executive Engineer, Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency : Sri. M Lakshmana Raju, Contractor, Bangalore.
Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 11.06.2020
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	204	204	2.0	98.0	95-100
22.4	2556	2760	27.6	72.4	60-80
11.2	2167	4927	49.3	50.7	40-60
4.75	1894	6821	68.2	31.8	25-40
2.36	1155	7976	79.8	20.2	15-30
0.600	588	8564	85.6	14.4	8-22
0.075	1217	9781	97.8	2.2	0-5

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Lab No: CQCE/BBMP/MLR/17/2019-20 Date: 11.06.2020

Aggregate Impact Value

Client	**Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	**Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the Work	Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	11.06.2020

Sl No.	Details	Test No. 1	2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	298	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	23.04	22.40	22.72

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 11.06.2020

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	**Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of Work	Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	11.06.2020

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.6	9.9	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.2	12.4	
	Combined Flakiness & Elongation index	21.80	22.3	

Note:

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date : 13.06.2020

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing : 11.06.2020 to 13.06.2020

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date : 13.06.2020

ATTERBERG LIMITS TEST FOR WMM

Client : Executive Engineer, Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : Sri. M Lakshmana Raju, Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing : 11.06.2020 to 13.06.2020

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No: CQCE/BBMP/MLR/17/2019-20

Date:16.06.2020

FIELD DENSITY TEST BY SAND REPLACEMENT METHOD
(IS : 2720 - Part 28)

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Contractor : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 15.06.2020 to 16.06.2020

Material Source :WMM

Optium Moisture Content (%):7.2

Max.Dry Density (S) (g/cc):2.22

Sl.no	Location/Identification	Field dry Density (g/cc)	Field compaction achieved (%)	Requirement as per MORTH 5th edition Table 406.3.5
1	Sample 1	2.177	98.06	Min 98%
2	Sample 2	2.176	98.02	
3	Sample 3	2.187	98.51	
4	Sample 4	2.179	98.15	

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